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31 March 2014
File No. 39800-001

California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite1400
Oakland, California 94612

Attention: Mr. Max Shahbazian, PG

Subject: Addendum to Vapor Intrusion Evaluation Report
1160 Kern Avenue
Sunnyvale, California

Dear Mr. Shahbazian:

On behalf of Advanced Micro Devices, Inc. (AMD), Haley & Aldrich, Inc. (Haley & Aldrich) has prepared this Addendum to the Vapor Intrusion Evaluation Report (Addendum) for the former Monolithic Memories, Inc. (MMI) facility located at 1160 Kern Avenue in Sunnyvale, California (the Site). The Vapor Intrusion Evaluation Report (VI Report; Haley & Aldrich, 2014) was submitted to the California Regional Water Quality Control Board – San Francisco Bay Region (Water Board) on 28 February 2014. This Addendum describes the results of a preferential pathway investigation completed at the Site to evaluate the effectiveness of mitigation measures completed at the warehouse restrooms.

BACKGROUND

On 24 May 2013, a preferential pathway investigation was completed at the Site in general accordance with the Revised Work Plan for Preferential Pathway Investigation (AMEC, 2013). The objective of this investigation was to assess potential sources of vapor migration (preferential pathways) into the women's restroom in the warehouse portion of the building, in order to help evaluate additional mitigation measures that can be undertaken to further reduce concentrations of trichloroethene (TCE) in the restroom. Thirty-four screening-level samples (i.e., grab) preferential pathway and indoor air samples were collected and analyzed in real-time by KD Analytical under the supervision of representatives from Haley & Aldrich and AMEC, using an Inficon Hapsite® Smart Plus portable gas chromatograph/mass spectrometer (GC/MS). The results of the preferential pathway assessment suggested that vapor intrusion was occurring primarily though the floor drains and cracks in the floor of the women's warehouse restroom, based on the relatively higher concentrations of TCE in preferential pathway samples collected at those locations compared to the grab indoor air samples (Haley & Aldrich, 2013).

Based on the results of the preferential pathway study, AMD completed the following vapor intrusion mitigations measures in the warehouse restrooms:

- Installed the Retro-Coat™ Vapor Intrusion Coating System (Retro-Coat™ system) to the floors in the women's and men's warehouse restrooms in January 2014.

- Replaced the existing drain inserts in each restroom drain (in both the warehouse and lobby) with rubber Dranjer™ D-R2 drain inserts on 5 February 2014.

On 10 February 2014, eight-hour indoor air samples were collected in Summa™ canisters at the Site in general accordance with the IA Work Plan (AMEC, 2011a) with the heating, ventilation, and air conditioning (HVAC) system active to confirm the effectiveness of the recent mitigation measures. TCE was detected at a concentration of 3.5/3.3 micrograms per cubic meter ($\mu g/m^3$) in the primary/duplicate samples collected at the women's warehouse restroom, which are lower than previously detected concentrations, but slightly above the commercial/industrial Regional Screening Level (RSL) of 3.0 $\mu g/m^3$. TCE was detected at concentrations below the commercial RSL in the indoor air samples collected in the volunteer room (0.97 $\mu g/m^3$), warehouse/storage room (0.98 $\mu g/m^3$), and men's warehouse restroom (0.91 $\mu g/m^3$). Tetrachloroethene (PCE) was detected in every indoor air sample collected, but at concentrations below the commercial California-modified indoor air screening level. These results indicate that PCE and TCE levels have decreased in indoor air due to the mitigation steps performed to date and do not pose an unacceptable health risk (Haley & Aldrich, 2014).

To directly assess the effectiveness of the floor sealing and drain inserts, a second preferential pathway assessment was completed in accordance with the methods described in the 2013 Revised Work Plan for Preferential Pathway Assessment (AMEC, 2013). It is important to note that the portable GC/MS used during this investigation and the May 2013 investigation is effective to evaluate spatial differences in concentration and preferential pathways but was not calibrated to provide the level of accuracy required for risk assessment purposes. Because the purpose of these assessments was to evaluate preferential pathways only, the analytical method and sampling protocols did not include the same level of quality assurance, quality control and sample volume and duration normally required for risk assessment purposes. Therefore, the results presented herein should not be compared to RSLs or other indoor air screening levels; they are useful only for assessing preferential pathways.

FIELD ACTIVITIES

Haley & Aldrich subcontracted with KD Analytical to conduct the second preferential pathway assessment on 25 February 2014. Forty-five screening-level (i.e., grab) preferential pathway and indoor air samples were collected and analyzed in real-time by KD Analytical under the supervision of Haley & Aldrich, using an Inficon Hapsite® ER portable GC/MS (portable GC/MS). Samples were collected at a rate of approximately 100 milliliters per minute, and analyzed using the method developed for indoor air characterization at Hill Air Force Base in Utah (Gorder and Dettenmaier, 2011). The grab samples were collected from all four restrooms at the building, with the majority of those being collected in the women's warehouse restroom.

Grab indoor and ambient air samples were collected directly into the sample intake of the portable GC/MS. Grab preferential pathway samples were collected by placing the sample intake, fitted with new, disposable low density polyethylene (LDPE) tubing attached via a one-inch piece of Tygon® tubing, at the targeted feature (e.g., cracks, penetrations, or seams in walls, and floor drains). Several preferential pathway samples were collected by first sealing the targeted feature beneath a Mylar sheet with duct tape, and allowing the space beneath the Mylar to equilibrate for several hours. Samples were

collected from beneath the Mylar sheets by cutting an approximately one-centimeter slit in the Mylar and inserting the LDPE tubing.

To evaluate the effectiveness of the Retro-Coat™ sealant, samples were collected at locations of cracks and seams in the previous floor tile. These samples were collected by covering the previously sampled location with a Mylar sheet, and sealing with duct tape.

As part of the preferential pathway assessment, the shower drain in the women's warehouse restroom was flushed with water to evaluate whether clearing the drain and associated piping affected concentrations of PCE and TCE measured in samples collected in the restroom, particularly at the other drain and sinks. Water was flushed through the drain for approximately 30 minutes at 12:05 PM. Initially, the water did not drain due to a clog in the shower drain beneath the Dranjer™ D-R2 drain insert. After removing the drain insert and dislodging the clog, the water gradually drained out of the shower causing air in the pipes to bubble to the surface.

Quality assurance/quality control (QA/QC) samples collected and analyzed during the preferential pathway investigation included ambient air samples, which were collected throughout the day, and an equipment blank sample. During the collection of one ambient air sample at the loading dock south of the on-Site building, a delivery truck started. This truck exhaust saturated the concentrator, column and detector of the portable GC/MS and the concentrated "clean-out" method was used several times to remove high concentrations of analytes from the instrument. One equipment blank sample was collected with the Tygon® and LDPE tubing used to collect the grab preferential pathway and several of the grab, screening indoor air samples. The results of the ambient air and equipment blanks demonstrate that the analytical results of the portable GC/MS are useful solely for comparative purposes, and not as a measure of absolute concentrations.

RESULTS

The results of the preferential pathway assessment are summarized below. The report provided by KD Analytical is included as Appendix A. As described in the Work Plan, the instrument was previously calibrated by KD Analytical, but was not calibrated immediately prior to conducting the preferential pathway investigation (i.e., samples were likely collected at another site or sites following instrument calibration and prior to sampling at the Site). Therefore the results should only be used to assess relative concentrations of PCE and TCE, and should not be used for direct comparison to screening levels.

Ambient Air and Equipment Blank Samples

The analytical results of ambient air and equipment blank samples collected on 25 February 2014 are presented in Figure 3, along with the results of ambient air samples analyzed with the portable GC/MS. The ambient air samples collected during the truck start-up (sample 20140225_024) and after several concentrated clean-outs (samples 20140225_025 through 20140225_027) are not included in Figure 3.

PCE and TCE were detected at concentrations up to 0.17 parts per billion by volume (ppbv) and 0.22 ppbv, respectively, in ambient air samples; these results are higher than the corresponding ambient air

concentrations measured during the first preferential pathway investigation on 24 May 2014. PCE and TCE were detected at concentrations of 0.47 ppbv and 0.50 ppbv, respectively, in the LDPE and Tygon® tubing equipment blank sample. These detections of concentrations up to 0.50 ppbv in the equipment blank sample indicate that this concentration should be considered the reporting limit for the measurements collected with the portable GC/MS.

Preferential Pathway Samples

PCE and TCE were detected in every grab preferential pathway sample, at concentrations ranging from 0.28 to 9.4 ppbv and 0.42 to 141 ppbv, respectively. In general, the concentrations detected in most of the grab preferential pathway samples were comparable to the grab indoor air samples, indicating they are not likely preferential pathways for vapor intrusion. However, samples collected from the following two locations contained concentrations of TCE greater than 10 ppbv:

- The floor drain in the center of the women's warehouse restroom, underneath sealed Mylar and after the shower drain was flushed with water (Sample 20140225_037; TCE measured at a concentration of 141 ppbv); and
- The floor drain in the shower in the women's warehouse restroom (Sample 20140225_017; TCE measured at a concentration of 15 ppbv).

Effect of Drain Flushing on Sample Results

Figure 4 presents a comparison of PCE and TCE concentrations measured in grab preferential pathway and indoor air samples before and after the flushing of the drain in the women's warehouse restroom. The median PCE and TCE concentrations are included in Figure 4 to compare the pre- and post-flushing concentrations of PCE and TCE in samples collected in the women's warehouse restroom. The median concentration is more appropriate for this comparison than the average concentration, since the median is not overly influenced by statistical outliers. The median PCE and TCE concentrations in grab samples collected in the women's warehouse restroom were approximately three times higher after flushing the shower drain compared to the pre-flushing samples. This comparison indicates that flushing the shower drain may have forced air impacted with PCE and TCE into the women's warehouse restroom from the associated piping. This conclusion is further supported by the results of grab samples collected at the floor drain in the center of the women's warehouse restroom. TCE was detected at a much lower concentration (1.0 ppbv) in the sample collected in the morning than in the afternoon (141 ppbv).[1]

Retro-Coat™ Floor Sealant

Mylar sheeting was placed over the previous location of the crack between the floor tiles at the women's warehouse restroom to evaluate the effectiveness of the Retro-Coat™ floor sealant. Prior to the application of the Retro-Coat™ floor sealant (i.e., the May 2013 primary and duplicate samples), PCE

[1] The grab, screening sample was collected in the morning by placing the sample tubing inlet at the surface of the floor drain. Prior to running water through the shower drain, the center floor drain was sealed with Mylar sheeting, and the grab, screening sample was collected in the afternoon from beneath the Mylar sheeting.

was measured at concentrations of 31 and 32 ppbv, and TCE was measured at concentrations of 82 and 86 ppbv, in samples collected from beneath a Mylar sheet placed over this crack in the women's warehouse restroom. After application (i.e., the February 2014 sample), PCE and TCE were measured at concentrations of 0.61 and 0.92 ppbv, respectively, in the sample collected from beneath the Mylar sheeting at this location. A comparison of the results for the May 2013 and February 2014 grab samples is presented in Figure 5.

DISCUSSION

The results of the preferential pathway assessment suggest that, after application of the Retro-Coat™ system and installation of the Dranjer™ D-R2 drain inserts, vapor intrusion is occurring primarily through the floor drains, based on the higher concentrations detected in the grab samples collected after water was flushed through the shower drain. The concentrations of PCE and TCE detected at the location of the former crack in the floor tiles in February 2014 were approximately two orders of magnitude lower than in May 2013, indicating that the application of the Retro-Coat™ system was successful in sealing preferential pathways through the concrete floor. The relatively higher concentrations detected beneath Mylar at the floor drain in February 2014 suggest that the Dranjer drain inserts are not functioning as desired.

One observation made during the first preferential pathway investigation in May 2013 was that, after sealing the Mylar sheets over potential pathways (e.g., cracks, drains) in the women's warehouse restroom, the space beneath the sheets slowly filled with air and expanded, indicating that negative pressure conditions existed in the restroom. These effects were not observed during the February 2014 investigation, indicating that the negative pressure previously observed in the women's warehouse restroom has been mitigated.[2]

SUMMARY AND RECOMMENDATIONS

The most recent eight-hour indoor air samples indicate that PCE and TCE levels have decreased in indoor air due to the mitigation steps performed to date and do not pose an unacceptable health risk (Haley & Aldrich, 2014). However, the results of the second preferential pathways study presented herein suggest the shower and floor drains are a likely pathway for low-level impacts to indoor air, and therefore, an additional level of protection may be achieved through mitigation of the drains as preferential pathways. Haley & Aldrich is currently investigating options for further assessing the integrity of the drains and sewer lateral in order to determine an appropriate mitigation action. When this is determined, the next steps will be proposed to the Water Board and EPA. Haley & Aldrich will communicate the progress on the investigation and potential mitigation to the Water Board and EPA on or before 30 April 2014.

[2] Vents were installed in each restroom door on 21 October 21 2013 to allow for sufficient ventilation so negative pressure will not be generated by the exhaust fans.

Please contact either of the undersigned if you have any questions or require additional information.

Sincerely yours,
HALEY & ALDRICH, INC.

Peter Scaramella
Senior Risk Assessor

Peter Bennett, PG, CHG
Vice President and Lead Hydrogeologist

Michael Calhoun, PG, CHG
Senior Technical Specialist / Project Manager

Enclosures:

References
Figure 1 – Site Location Map
Figure 2 – Site Plan
Figure 3 – Results for Ambient and Equipment Blank Samples
Figure 4 – Comparison Pre- and Post-Flushing Sample Results
Figure 5 – Comparison of Preferential Pathway Sample Results Women's Warehouse Restroom
Appendix A – KD Analytical Data Sheets

c: Advanced Micro Devices, Inc.; Attn: Brett Stringer
United States Environmental Protection Agency; Attn: Melanie Morash
Resource Area for Teaching; Attn: Doug Lang

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REFERENCES

1. AMEC, 2012, Addendum to Report of Results – Indoor Air Sampling, 1160 Kern Avenue, Sunnyvale, California, January 26.

2. AMEC, 2013, Revised Work Plan for Preferential Pathway Investigation, 1160 Kern Avenue, Sunnyvale, California, January 15.

3. AMEC Geomatrix, 2009, Five-Year Report, 1165/1175 Arques Avenue Site, February 2.

4. AMEC Geomatrix, 2011a, Final Work Plan for Indoor Air Investigation, 1160 Kern Avenue, Sunnyvale, California, July 29.

5. AMEC Geomatrix, 2011b, Report of Results – Indoor Air Sampling, 1160 Kern Avenue, Sunnyvale, California, October 11.

6. Gorder, K. and Dettenmaier, E., 2011, Portable GC/MS Methods to Evaluate Sources of cVOC Contamination in Indoor Air, Groundwater Monitoring and Remediation, Vol. 31, No. 4, Fall 2011, pp. 113-119.

7. Haley & Aldrich, Inc., 2013, Preferential Pathway Investigation Report and Proposed Mitigation Measures, 1160 Kern Avenue, Sunnyvale, California, July 8.

8. Haley & Aldrich, Inc., 2014, Vapor Intrusion Evaluation Report, 1160 Kern Avenue, Sunnyvale, California, February 28.

9. USEPA, 2009, Third Five-Year Review, Monolithic Memories (Advanced Micro Devices – Arques), Sunnyvale, Santa Clara County, California, September 30.

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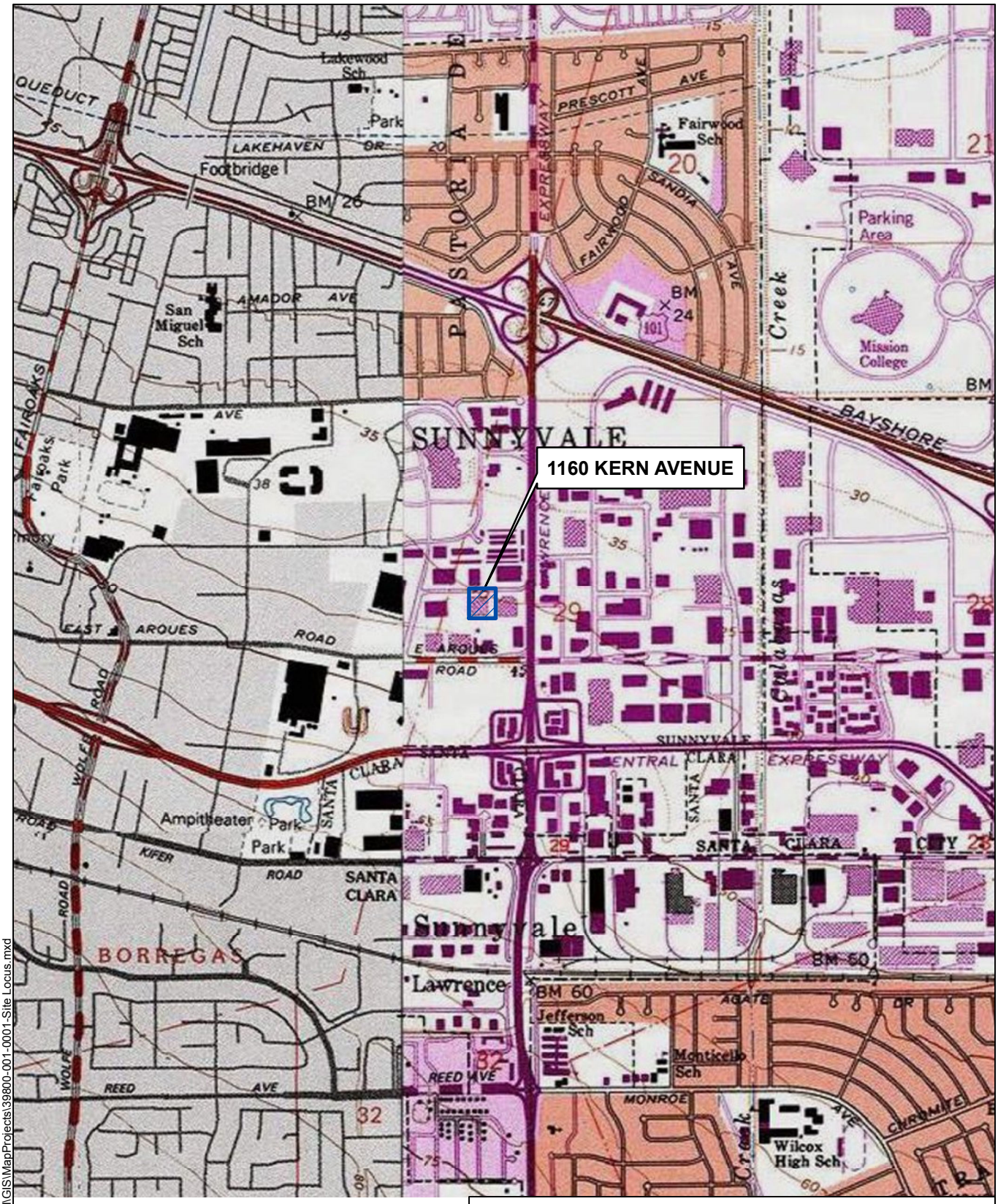
FIGURES



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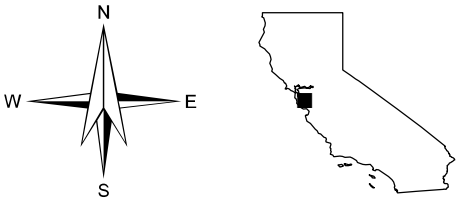

U.S.G.S. QUADRANGLE: CUPERTINO, CA

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1160 KERN AVENUE
SUNNYVALE, CALIFORNIA

SITE LOCATION MAP

SCALE: 1:24,000
JUNE 2013

FIGURE 1

Document Path: G:\39800_AMD\GlobalGIS\MapProjects\39800-001-0001-Site Locus.mxd

Document Path: G:\39800_AMD\Global\GIS\MapProjects\39800-001-A002-Site Plan.mxd

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W E
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0 50
SCALE IN FEET

NOTES:
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. BACKGROUND FORM ESRI ONLINE SERVICE.

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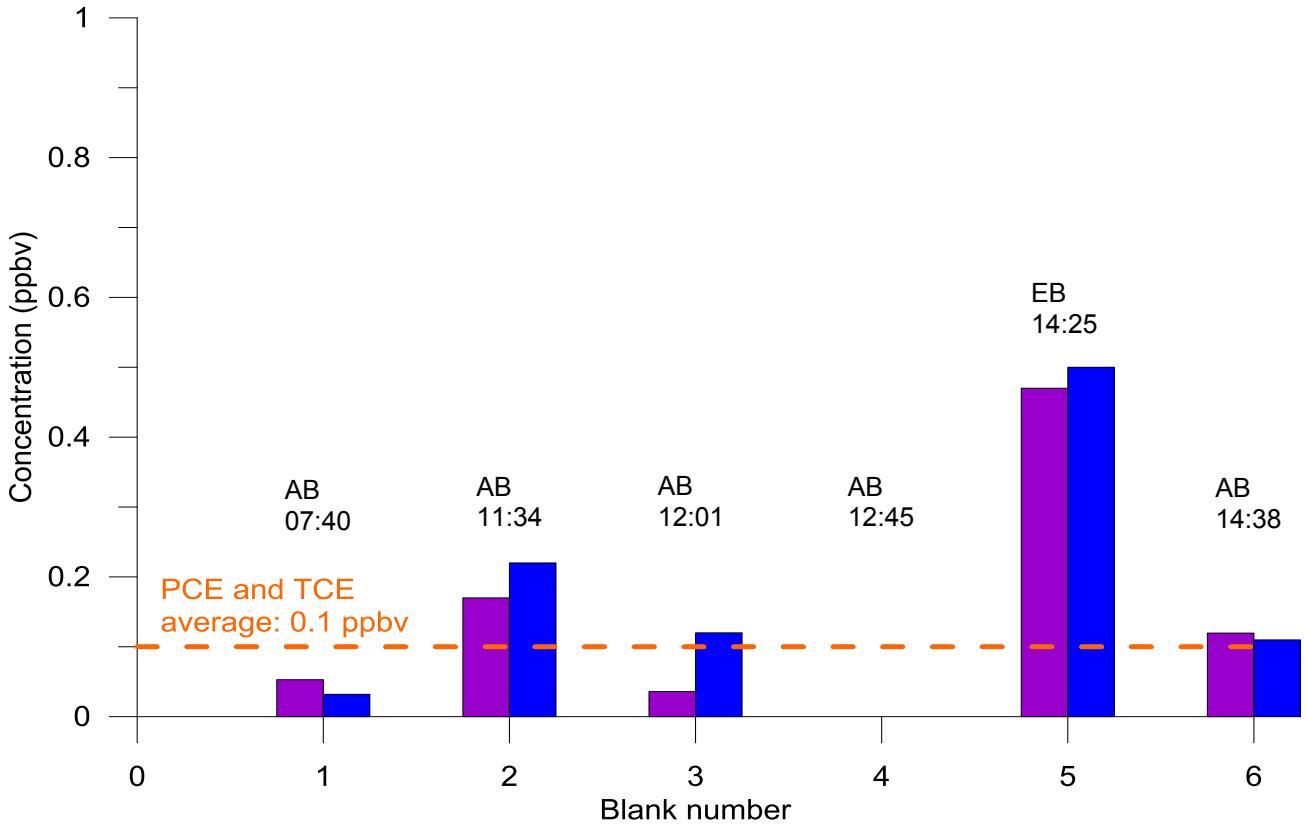
SITE PLAN

SCALE: AS SHOWN
MARCH 2014

FIGURE 2



Explanation

PCE
TCE
Average

Abbreviations

PCE = tetrachloroethene
TCE = trichloroethene
ppbv = parts per billion (by volume)
AB = ambient blank sample
EB = equipment blank sample

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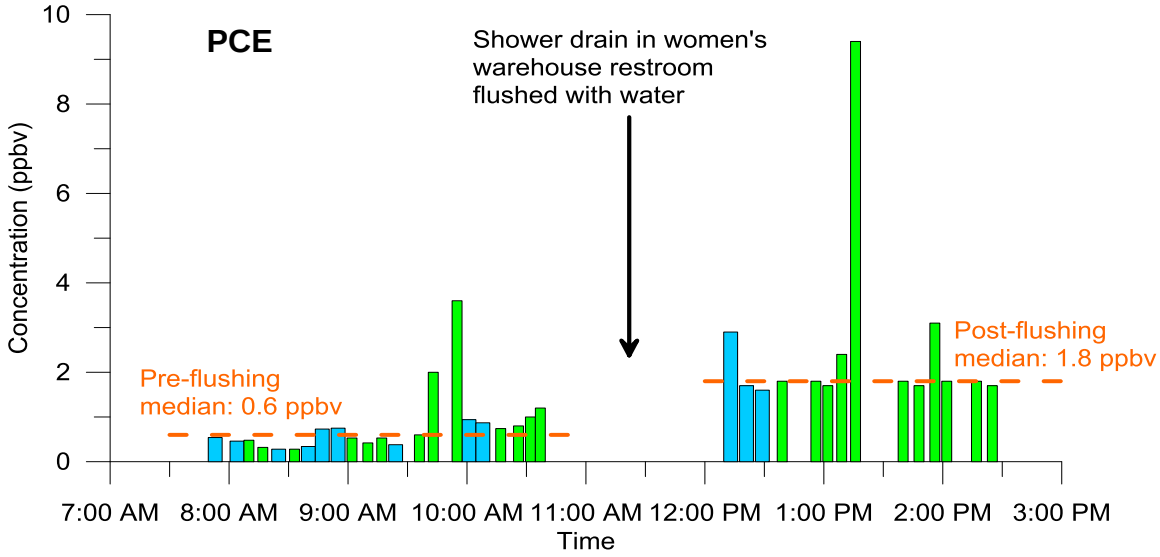
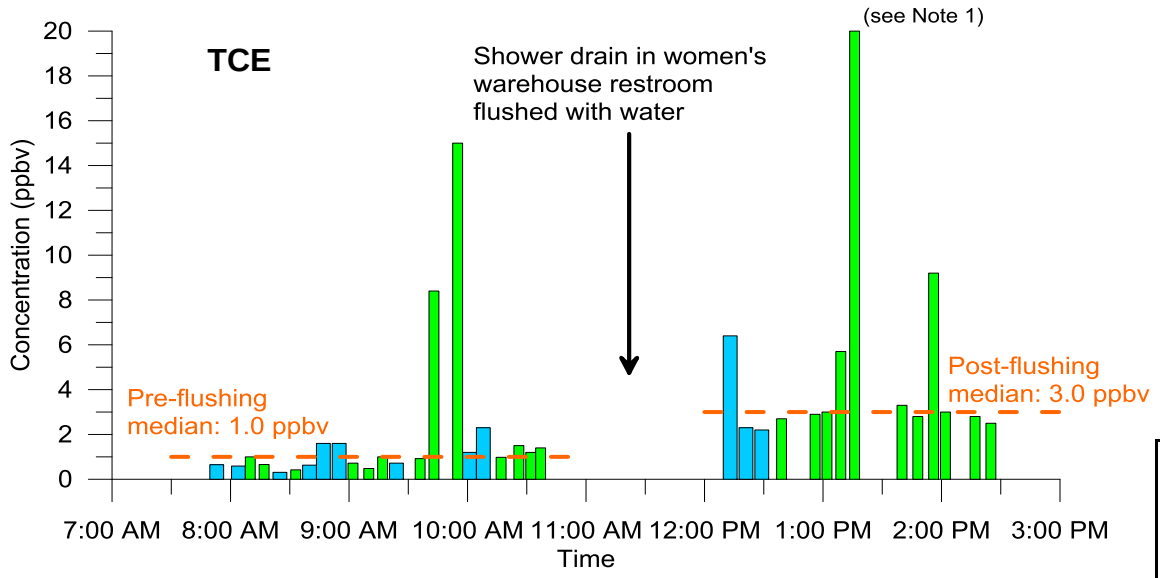
SUNNYVALE, CALIFORNIA

RESULTS FOR AMBIENT AND EQUIPMENT BLANK SAMPLES

MARCH 2014

FIGURE 3





Explanation

- Indoor Air Samples
- Preferential Pathway Samples
- Median Concentration

Note

1. Concentration of sample 20140225_037 was 141 ppmv; bar chart is cut off for clarity.

Abbreviations

PCE = tetrachloroethene
TCE = trichloroethene
ppbv = parts per billion (by volume)

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COMPARISON OF PRE- AND POST-FLUSHING SAMPLE RESULTS

MARCH 2014

FIGURE 4

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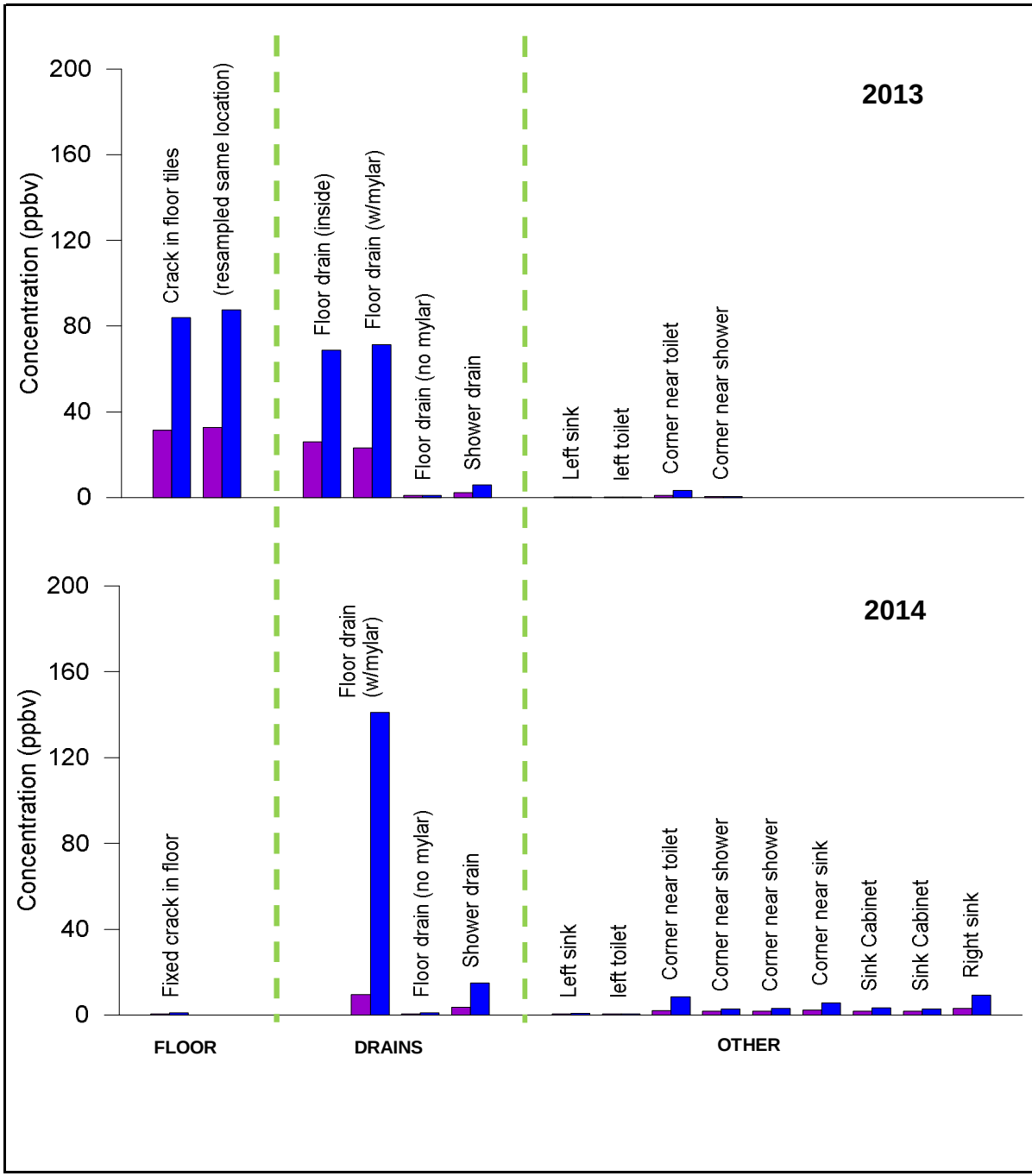

Explanation

PCE
TCE

Abbreviations

PCE = tetrachloroethene
TCE = trichloroethene
ppbv = parts per billion (by volume)

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SUMMARY OF PREFERENTIAL PATHWAY SAMPLE RESULTS--WOMEN'S WAREHOUSE RESTROOM

MARCH 2014

FIGURE 5

G:\39800_AMD_1165 E Arques-1160 Kern Ave\Deliverables\VI Addendum\figures\[Figure 5.xlsx]Figure 6-1

APPENDIX A

KD Analytical Data Sheets

Report

Haley & Aldrich

Sunnyvale, CA
February 25th, 2014

Haley and Aldrich Inc. contracted KD Analytical Inc. to perform vapor intrusion analysis for trichloroethylene (TCE) and tetrachloroethylene (PCE) for the Advanced Micro Devices project in Sunnyvale, California. Analyses were performed using field-portable gas chromatography mass spectrometer (GC/MS). This report presents the results obtained during this project.

Sampling Locations

The locations for sampling during this project were determined by Haley & Aldrich personnel.

Chemical Measurements

- Analytical System (Inficon Hapsite GC/MS)

The Inficon Hapsite portable GC/MS was designed specifically for the analysis of volatile compounds. The Hapsite is a full featured quadrupole GC/MS. The Hapsite was used for this sampling event with a built in tri-bed concentrator in order to reach detection limits of < 0.1 ppbv.

The Hapsite GC/MS uses a sampling wand with an internal pump to collect the sample. The column is a 30 meter OV-1 with a 3 meter backflush column. The backflush column allows the volatile organic target compounds to get onto the column, then backflushes off the non-target semi-volatile compounds. The interface between the GC and MS is a methyl silicone membrane. This membrane allows organics to migrate through to the MS while sweeping most non-organics out through the vent. The analyses time on the Hapsite GC/MS is typically about 4-5 minutes.

Table 1: Operating Conditions

Serial # 70023187 & 70023778 (ER)

Column Temperature (°C)	**60-180**
Membrane Temperature (°C)	**80**
Valve Oven Temperature (°C)	**70**
Probe Temperature (°C)	**50**
NEG Temperature (°C)	**400**
Concentrator Elbow Temperature (°C)	**70**
Heated Line Temperature (°C)	**70**
Analysis Time (minutes)	**<5.0**

Quality Assurance/Quality Control

The following steps were taken to ensure the data collected during the analytical events were of usable quality:

- Four Point Calibration

A four-point calibration for TCE & PCE was performed prior to sample analysis. The calibration was within the acceptance criteria of less than or equal to 30% relative standard deviation (RSD).

- Standard Preparation

Stock standards for TCE & PCE were prepared from neat liquid in one-liter Tedlar bags. One liter of air was metered into the Tedlar bag using a one liter syringe. A 1.0ul syringe was then used to inject the appropriate amount of neat liquid into the Tedlar bag. Working standards were then prepared by performing serial dilutions from the stock standard.

- Blanks

Blank samples were analyzed prior to sampling and throughout the day to ensure there was no carryover affecting samples. Blanks were performed by analyzing ambient air from outside the sampling area.

All blanks were within the acceptance criteria of no compound concentrations above the detection limit of 0.10ppbv.

- Concentrator Cleanout

A concentrator cleanout method is used to remove high concentration analytes from the instrument by increasing the heat in the column to 180ºC. The concentrator is then backflushed. Several concentrator cleanouts were performed during the project.

FULL SCAN Calibration Response Table
HAPSITE method: /Haps/Method/Analyze/Concentrator/SV_PPB_SIM2.mth
Method Description:
Method for TCE PCE
Tune File: default.tun
Target Library: tce pce
Last Modified: 2/24/2014 9:55:28 PM

W = RT +- (0:30.00 / 2 + RT * 0.050)
Min Fit = 0.100; Min Pur = 0.100; Min Area = 4000
Width = 7 - 70 scans; Res = 5 scans; NLM = 2.000

Linear, forced through origin calibration curve

Internal Standards

Analytes

Analyte. #1 -- TCE
4 Calibration Points
Linear, forced through origin calibration curve
Concentration = (0.0000e+000)(AREA**2)+(3.5114e-006)(AREA)+0.0000e+000

pt.	File	Conc.	Cratio	Area	Aratio	Resp. Factor
1	SIM_20PPB_20140224_007	20	2.00E+01	5687359	5.69E+06	2.84E+05
2	SIM_20PPB_20140224_006	0.2	2.00E-01	159976	1.60E+05	8.00E+05
3	SIM_20PPB_20140224_005	1	1.00E+00	489987	4.90E+05	4.90E+05
4	SIM_20PPB_20140224_004	10	1.00E+01	2823082	2.82E+06	2.82E+05

Average RF = 4.64E+05
RSD of Curve Fi 5.83%

Analyte. #2 -- PCE
4 Calibration Points
Linear, forced through origin calibration curve
Concentration = (0.0000e+000)(AREA**2)+(2.4951e-006)(AREA)+0.0000e+000

pt.	File	Conc.	Cratio	Area	Aratio	Resp. Factor
1	SIM_20PPB_20140224_007	20	2.00E+01	7851159	7.85E+06	3.93E+05
2	SIM_20PPB_20140224_006	0.2	2.00E-01	183519	1.84E+05	9.18E+05
3	SIM_20PPB_20140224_005	1	1.00E+00	625328	6.25E+05	6.25E+05
4	SIM_20PPB_20140224_004	10	1.00E+01	4272690	4.27E+06	4.27E+05

Average RF = 5.91E+05
RSD of Curve Fi 7.11%

Unknown Identification Report
Date: 03/03/14 Time: 15:28:32
Calibration Method:
/Haps/Method/Analyze/Concentrator/CH2M_SV_PPB_SIM2.mth
Tune File:
default.tun
Method Description:
Method for TCE PCE

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_045.hps
GPS Info:
Latitude: N 37 Deg 22.90672 Min Longitude: W 121 Deg 59.87915 Min GMT: 02/25/14 10:37:07 PM

Acquisition Date and Time: 2/25/2014 2:39:12 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:48.8	0.994	1	32145	0.113	
92	03:36.3	PCE	03:35.2	0.998	1	48468	0.121	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_044.hps
GPS Info:
Valid GPS Information Not Available

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Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

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Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:49.1	0.999	1	143917	0.505	
92	03:36.3	PCE	03:33.9	1	1	188400	0.47	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_043.hps
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Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 2:17:54 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

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Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:50.6	1	1	702636	2.467	
92	03:36.3	PCE	03:34.3	1	1	691946	1.726	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_042.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 2:10:47 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:50.6	1	1	805204	2.827	
92	03:36.3	PCE	03:34.0	1	1	712741	1.778	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_041.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 2:03:17 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7

Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:50.8	1	1	844135	2.964	
92	03:36.3	PCE	03:34.6	1	1	723134	1.804	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_040.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 1:56:28 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:50.0	1	1	2608065	9.158	
92	03:36.3	PCE	03:33.4	1	1	1244482	3.105	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_039.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 1:49:25 PM

Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:50.4	1	1	791340	2.779	
92	03:36.3	PCE	03:34.5	1	1	699507	1.745	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_038.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 1:42:13 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:49.6	1	1	935563	3.285	
92	03:36.3	PCE	03:33.2	1	1	719781	1.796	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_037.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 1:20:13 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:47.0	0.789	1	40250036	141.34	
92	03:36.3	PCE	03:35.7	1	1	3761161	9.385	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_036.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 1:12:19 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050

Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:50.7	1	1	1622538	5.697	
92	03:36.3	PCE		03:34.7	1	1	957931	2.39	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_035.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 1:03:51 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:50.8	1	1	852843	2.995	
92	03:36.3	PCE		03:34.2	1	1	675250	1.685	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_034.hps

GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 12:56:58 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:50.5	1	1	819279	2.877	
92	03:36.3	PCE		03:33.9	1	1	738672	1.843	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_033.hps
GPS Info:
Latitude: N 37 Deg 22.90535 Min Longitude: W 121 Deg 59.87595 Min GMT: 02/25/14 08:45:29 PM

Acquisition Date and Time: 2/25/2014 12:47:34 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:49.7	0.981	1	58155	0.204	
92	03:36.3	PCE	03:33.7	0.513	1	3695		Area too lo

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_032.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 12:40:13 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:49.8	1	1	764350	2.684	
92	03:36.3	PCE	03:33.5	1	1	703368	1.755	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_031.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 12:32:50 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:49.8	1	1	613902	2.156	
92	03:36.3	PCE	03:33.8	1	1	645890	1.612	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_030.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 12:23:25 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:50.6	1	1	663130	2.329	
92	03:36.3	PCE	03:33.7	0.999	1	670580	1.673	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_029.hps
GPS Info:
Latitude: N 37 Deg 22.93739 Min Longitude: W 121 Deg 59.88922 Min GMT: 02/25/14 08:12:03 PM

Acquisition Date and Time: 2/25/2014 12:14:08 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:49.6	1	1	1812579	6.365	
92	03:36.3	PCE		03:32.8	0.999	1	1166429	2.91	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_028.hps
GPS Info:
Latitude: N 37 Deg 22.90810 Min Longitude: W 121 Deg 59.87869 Min GMT: 02/25/14 08:02:02 PM

Acquisition Date and Time: 2/25/2014 12:04:07 PM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000

Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:48.7	0.989	1	33251	0.117	
92	03:36.3	PCE	03:40.0	0.513	1	14539	0.036	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_027.hps
GPS Info:
Latitude: N 37 Deg 22.90787 Min Longitude: W 121 Deg 59.87686 Min GMT: 02/25/14 07:41:56 PM

Acquisition Date and Time: 2/25/2014 11:44:01 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:49.9	0.999	1	64766	0.227	
92	03:36.3	PCE	03:33.5	1	1	69709	0.174	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_026.hps
GPS Info:
Latitude: N 37 Deg 22.90787 Min Longitude: W 121 Deg 59.87732 Min GMT: 02/25/14 07:34:39 PM

Acquisition Date and Time: 2/25/2014 11:36:44 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:49.8	1	1	102515	0.36	
92	03:36.3	PCE	03:33.2	0.997	1	52964	0.132	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_025.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 11:07:21 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:49.9	1	1	54017	0.19	
92	03:36.3	PCE	03:41.4	0.99	1	43029088	107.36	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_024.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 10:47:25 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:51.4	1	1	193397	0.679	
92	03:36.3	PCE	03:34.0	0.997	1	464204	1.158	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_023.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 10:39:46 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00

Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:51.4	1	1	404472	1.42	
92	03:36.3	PCE	03:35.4	1	1	474374	1.184	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_022.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 10:32:52 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:50.7	1	1	352265	1.237	
92	03:36.3	PCE	03:36.3	1	1	401877	1.003	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_021.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 10:25:54 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:50.9	0.999	1	432285	1.518	
92	03:36.3	PCE	03:35.6	1	1	321617	0.802	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_020.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 10:18:09 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100

Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:50.8	1	1	278083	0.976	
92	03:36.3	PCE	03:35.6	1	1	297907	0.743	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_019.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 10:10:53 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:50.7	0.997	1	647389	2.273	
92	03:36.3	PCE	03:35.2	1	1	348398	0.869	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_018.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 10:03:30 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce

Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:51.7	1	1	347975	1.222	
92	03:36.3	PCE		03:36.5	1	1	375747	0.938	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_017.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 9:54:38 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:50.6	1	1	4295286	15.08	

92	03:36.3	PCE	03:35.4	1	1	1446321	3.609

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_016.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 9:45:34 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:51.5	1	1	2385344	8.376	
92	03:36.3	PCE		03:36.7	1	1	817058	2.039	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_015.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 9:36:33 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000

Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:51.0	1	1	260681	0.915	
92	03:36.3	PCE		03:36.5	1	1	242477	0.605	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_014.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 9:26:07 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:50.8	1	1	203503	0.715	
92	03:36.3	PCE		03:36.2	1	1	151811	0.379	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_013.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 9:17:56 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:50.6	1	1	285710	1.003	
92	03:36.3	PCE	03:36.2	1	1	214070	0.534	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_012.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 9:10:19 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:51.0	1	1	137459	0.483	
92	03:36.3	PCE	03:36.9	1	1	170530	0.425	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_011.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 9:03:08 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:50.6	1	1	204483	0.718	
92	03:36.3	PCE	03:36.1	1	1	212411	0.53	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_010.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 8:55:12 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:

Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:51.5	1	1	449174	1.577	
92	03:36.3	PCE		03:37.1	1	1	299507	0.747	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_009.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 8:47:46 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:51.5	1	1	463570	1.628	
92	03:36.3	PCE		03:37.5	1	1	290869	0.726	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_008.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 8:40:32 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:51.5	1	1	179510	0.63	
92	03:36.3	PCE	03:37.7	0.999	1	137239	0.342	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_007.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 8:33:20 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70

Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:51.9	1	1	120135	0.422	
92	03:36.3	PCE		03:38.0	1	1	112875	0.282	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_006.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 8:25:48 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte	Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE		01:53.5	1	1	87685	0.308	
92	03:36.3	PCE		03:40.0	0.999	1	112618	0.281	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_005.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 8:18:24 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth

Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:56.7	0.996	1	187630	0.659	
92	03:36.3	PCE	03:43.1	1	1	128617	0.321	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_004.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 8:10:32 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag

132	01:51.9	TCE	01:53.6	0.999	1	290705	1.021
92	03:36.3	PCE	03:39.9	0.999	1	193799	0.484

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_003.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 8:02:31 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:52.6	1	1	167225	0.587	
92	03:36.3	PCE	03:39.3	0.999	1	183925	0.459	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_002.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 7:53:24 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5

Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:51.6	1	1	183782	0.645	
92	03:36.3	PCE	03:37.1	0.999	1	216629	0.541	

Data File: C:\ER IQ\H1774\Data\SIM_HAI_VI_List\SIM_HAI_VI_List_20140225_001.hps
GPS Info:
Valid GPS Information Not Available

Acquisition Date and Time: 2/25/2014 7:43:05 AM
Acquisition Method: /Haps/Method/SIM_HAI_VI_List.mth
Target Library: tce pce
Last Calibrated: 2/24/2014 9:55:28 PM

Peak Search Parameters:
Search Window: 0:30.00
Window Expand Factor: 0.050
Peak Resolution: 5
Noise Level Multiplier: 2.000
Minimum Area: 4000
Minimum Width: 7
Maximum Width: 70
Minimum Fit: 0.100
Minimum Purity: 0.100

Q-Ion	Pred.RT	Analyte Na	Act.RT	fit	purity	area	ppb	Flag
132	01:51.9	TCE	01:35.2	0.935	1	9152	0.032	
92	03:36.3	PCE	03:39.2	0.994	1	21116	0.053	

Sample Log

Sample ID	Location	TCE	PCE
20140225_001	Method Blank	0.032	0.053
20140225_002	Womens restroom breathing air	0.65	0.54
20140225_003	Womans restroom large stall	0.59	0.46
20140225_004	Womans restroom large stall corner	1.0	0.48
20140225_005	Womens restroom drain	0.66	0.32
20140225_006	Mens restroom breathing air	0.31	0.28
20140225_007	Mens restroom drain	0.42	0.28
20140225_008	Womens whse bathroom breathing air by door	0.63	0.34
20140225_009	Womens whse bathroom breathing air middle	1.6	0.73
20140225_010	Womens whse bathroom breathing air shower	1.6	0.75
20140225_011	Womens whse bathroom under sink	0.72	0.53
20140225_012	Womens whse bathroom large stall toilet pipe	0.48	0.42
20140225_013	Womens whse bathroom floor drain	1.0	0.53
20140225_014	Outside Womens whse bathroom	0.72	0.38
20140225_015	Womens bathroom central floor mylar	0.92	0.60
20140225_016	Womens whse bathroom large stall corner mylar	8.4	2.0
20140225_017	Shower drain	15	3.6
20140225_018	Mens whse bathroom breathing air middle	1.2	0.94
20140225_019	Mens whse bathroom breathing air shower	2.3	0.87
20140225_020	Mens whse bathroom shower drain	0.98	0.74
20140225_021	Mens whse bathroom drain	1.5	0.8
20140225_022	Mens bathroom central floor mylar	1.2	1.0
20140225_023	Mens bathroom central floor mylar (duplicate)	1.4	1.2
20140225_024	Outside Blank with tubing	0.68	1.2
20140225_025	Outside Blank	0.19	110
20140225_026	Outside Blank	0.36	0.13
20140225_027	Outside Blank	0.22	0.17
20140225_028	Outside Blank	0.12	0.036
20140225_029	Womens whse bathroom breathing air middle	6.4	2.9
20140225_030	Mens whse bathroom breathing air middle	2.3	1.7
20140225_031	Outside Womens whse bathroom	2.2	1.6
20140225_032	Former sink outside womens whse bathroom	2.7	1.8
20140225_033	Outside Blank	ND	ND
20140225_034	Womens bathroom whse far corner	2.9	1.8
20140225_035	Womens bathroom whse far corner (duplicate)	3.0	1.7
20140225_036	Womens bathroom whse corner adjacent former sink	5.7	2.4
20140225_037	Womens bathroom drain	141	9.4
20140225_038	Womens bathroom cabinet left	3.3	1.8
20140225_039	Womens bathroom cabinet right	2.8	1.7
20140225_040	Womens bathroom sink basin right	9.2	3.1
20140225_041	Mens bathroom cabinet	3.0	1.8
20140225_042	Mens bathroom sink basin left	2.8	1.8
20140225_043	Mens bathroom sink basin left (duplicate)	2.5	1.7
20140225_044	Equipment Blank	0.50	0.47
20140225_045	Outside Blank	0.11	0.12

* ND = Non Detect